C. P. McWANE.

Log-Turner.

No. 166,021. Patented July 27, 1875.

Fig. 1

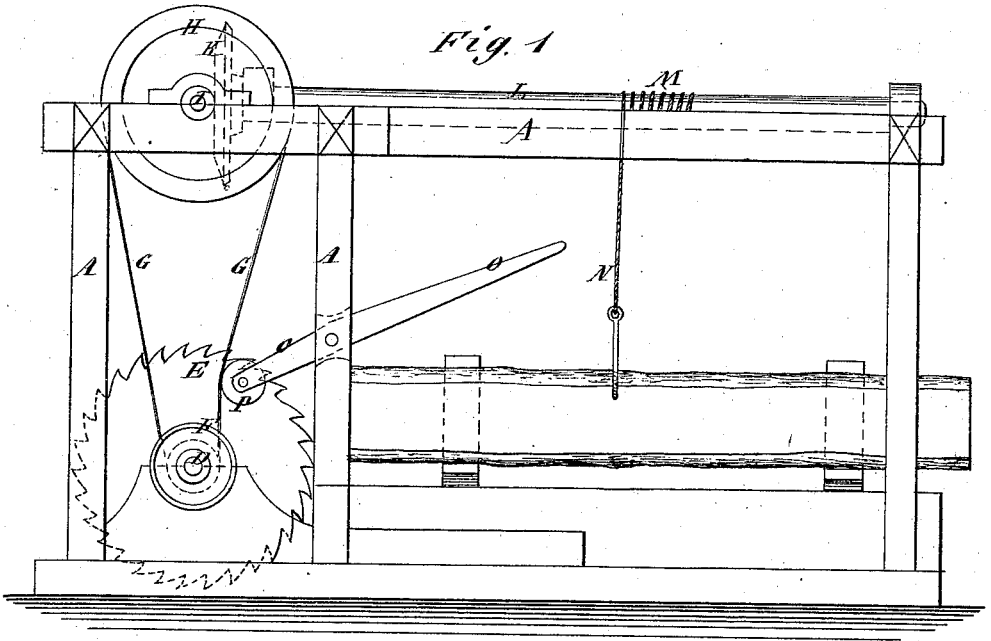
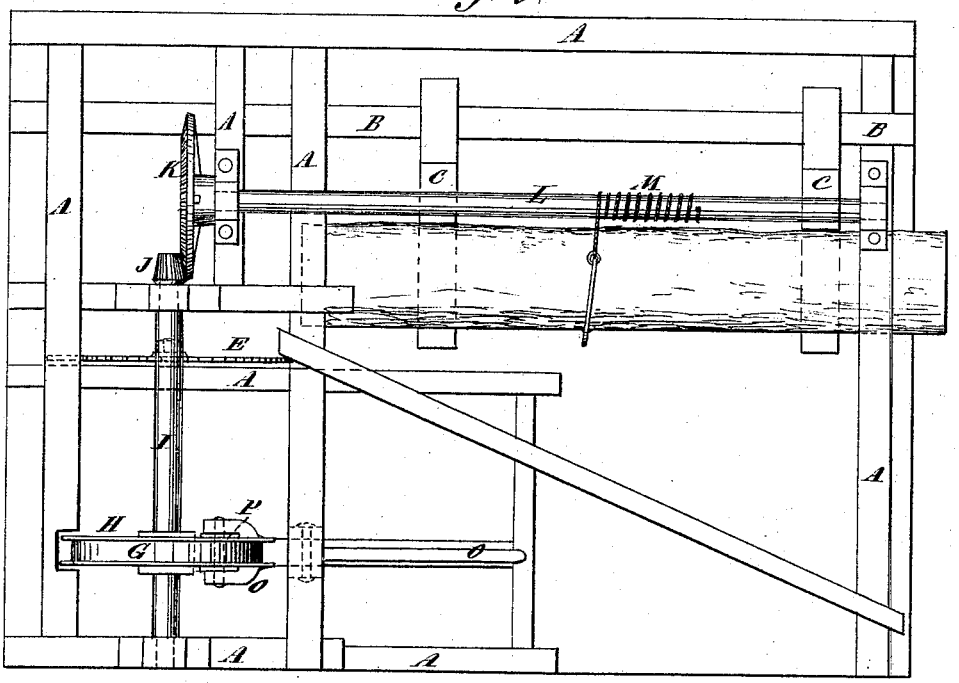


Fig. 2



WITNESSES:

C. Neveux

A. F. Terry

INVENTOR:

C. P. McWane

BY

ATTORNEYS.

UNITED STATES PATENT OFFICE.

CHARLES P. McWANE, OF DUBLIN, VIRGINIA.

IMPROVEMENT IN LOG-TURNERS.

Specification forming part of Letters Patent No. **166,021**, dated July 27, 1875; application filed June 5, 1875.

To all whom it may concern:

Be it known that I, CHARLES P. McWANE, of Dublin, in the county of Pulaski and State of Virginia, have invented a new and useful Improvement in Log-Turners, of which the following is a specification:

Figure 1 is a side view of my improved device, shown as applied to a saw-mill. Fig. 2 is a top view of the same.

Similar letters of reference indicate corresponding parts.

This invention relates to an improved arrangement of parts for effecting the turning or shifting of logs on the saw-mill carriage; and it consists particularly in the arrangement of the rope-winding shaft parallel to the ways on which the log-carriage travels, and of the saw-shaft at right angles thereto, and of the means for connecting the two shafts to cause their simultaneous rotation, as hereinafter described.

A represents the frame of the saw-mill. B represents the carriage, and C the knees of the head and tail blocks. D is the shaft, to which the saw E is attached, which revolves in bearings attached to the frame A, and to which power is applied in the usual way. To the saw-shaft D is attached a small pulley, F, around which passes a slack belt, G, which also passes around a larger pulley, H, attached to the shaft I. The shaft I revolves in bearings attached to the upper part of the frame A, and to it is attached a small bevel-gear wheel, J, the teeth of which mesh into the teeth of the larger bevel-gear wheel K attached to the shaft L. The shaft L revolves in bearings attached to the upper part of the frame A, and to it is attached the end of the rope or chain M, to the other end of which is attached a hook, N, to be driven into the log. O is a lever, which is pivoted to the frame A, and to the end of which is pivoted a friction-pulley, P, to bear against the belt G, and thus give sufficient tension to said belt to drive the log-turning device. The free end of the lever O projects into such a position that it may be conveniently reached and operated by the sawyer.

The arrangement of the shaft L parallel to the ways of the log-carriage enables two or more ropes to be used on the same shaft, one being to connect with each end of the log, while the position of the saw-shaft is such that the lever O for throwing shaft L into action is conveniently accessible to the sawyer who occupies the platform in the angle between the shafts.

I do not claim, broadly, the combination, in a log-turning machine, of a rope-winding shaft and saw-shaft arranged at right angles; but

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

The rope-winding shaft L, placed parallel to the ways of the log-carriage, the saw-shaft I at right angles thereto, the gear K, pinion J, pulleys H F, slack-band G, and pivoted lever O, carrying friction-roller P, all constructed and arranged to operate as shown and described.

CHARLES P. McWANE.

Witnesses:

JOHN H. DUDLEY,

JAMES S. GILES.